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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/535,674

05/22/2006

Thomas Froehlich

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23364 7590 02/13/2008

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EXAMINER

KHUU, HIEN DIEU THI

ART UNIT

PAPER NUMBER

2863

MAIL DATE

DELIVERY MODE

02/13/2008

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/535,674	<b>Applicant(s)</b> FROELICH ET AL.	
	<b>Examiner</b> CINDY D. KHUU	<b>Art Unit</b> 2863	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 02 January 2008.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 12-22 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 12-17 and 22 is/are rejected.
- 7) ☒ Claim(s) 18-21 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 May 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 12-17 and 22 are rejected under 35 U.S.C. 102(a) as being anticipated by Schaffer et al. (US 2005/0137812).

With respect to claim 12, Schaffer discloses a flow measuring device (fig. 2) for determining and/or monitoring the volume, and/or mass, flow rate of a medium flowing through a containment in a streaming direction (paragraph 0040), comprising:

at least one ultrasonic transducer (29 and 31), which emits and/or receives ultrasonic measuring signals (paragraph 0060); and

a control/evaluation unit (13), which determines the volume, and/or mass, flow rate of the medium in the containment on the basis of the ultrasonic measuring signals according to the travel-time-difference principle (paragraph 0040) or according to the Doppler principle (paragraph 0062), wherein:

associated with said control/evaluation unit is at least one component of high power uptake (11, 13; amplifier and processor); and

said control/evaluation unit is embodied such that said at least one component of high power uptake is operated intermittently in a measuring phase and in an idle phase (paragraph 0049), wherein said at least one component is activated in the measuring phase, while said at least one component has a reduced power uptake, or is turned off, in the idle phase (paragraphs 0051-0052).

With respect to claim 13, Schaffer discloses further a flow measuring device wherein: the flow measuring device is a clamp-on flow measuring device or a measuring device which can be placed within the containment (fig. 2).

With respect to claim 14, Schaffer discloses further a flow measuring device wherein: said at least one the component of high power uptake is one of: an amplifier (11), an analog/digital converter, a microprocessor (13) or a logic chip.

With respect to claim 15, Schaffer discloses further a flow measuring device further comprising: at least one component having a switching function, said at least one component having the switching function activates, or deactivates, said at least one component of high power uptake (paragraph 0056).

With respect to claim 16, Schaffer discloses further a flow measuring device wherein: a mechanism for decreasing current consumption is integrated into said at least one component of high power take up (paragraphs 0056 and 0067).

With respect to claim 17, Schaffer discloses further a flow measuring device wherein: said at least one component having a switching function comprises a semiconductor switch (paragraph 0056; it is inherent that there is a switching function contained in order to have the active and inactive modes).

With respect to claim 22, Schaffer discloses a flow measuring device further comprising: an energy storage element (21 and 23) associated with said control/evaluation unit, which is sized such that it can at least store the energy required in the measuring phase (paragraph 0048).

#### ***Allowable Subject Matter***

Claims 18-21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: The prior art of record, taken alone or in combination, fails to disclose or render obvious, which makes the following claims allowable over the prior art:

With respect to claim 18, a flow measuring device wherein: the time span between two successive measuring, or idle, phases of said at least one component of high power uptake and/or the duration of a measuring phase ( $t_2$ ) and/or the duration of an idle phase ( $t_1$ ) of said at least one component of high power uptake is/are predetermined.

With respect to claim 19, a flow measuring device further comprising: an input unit, via which the time span between two successive measuring, or idle, phases of said at least one component of high power take up and/or the duration of a measuring phase ( $t_2$ ) and/or the duration of an idle phase ( $t_1$ ) of said at least one component of high power take up is predeterminable.

With respect to claim 20, a flow measuring device wherein: said control/evaluation unit determines the travel time of the measuring signals on the basis of predetermined system and/or process variables and specifies the time span between two successive measuring, or idle, phases of said at least one component of high power take up and/or the duration of a measuring phase ( $t_2$ ) and/or the duration of an idle phase ( $t_1$ ) of said at least one component of high power take up, as a function of the determined travel time.

With respect to claim 21, a flow measuring device wherein: said control/evaluation unit determines the travel time of the measuring signals on the basis of predetermined system and/or process variables, and said control/evaluation unit predetermines the time span between two successive measuring, or idle, phases of said at least one component of high power take up and/or the duration of a measuring phase ( $t_2$ ) and/or the duration of an idle phase ( $t_1$ ) of said at least one component of high power take up, as a function of the determined travel time and as a function of the energy which is available.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Response to Arguments***

Applicant's arguments filed 01/02/2008 have been fully considered but they are not persuasive.

During patent examination, the pending claims must be given their broadest reasonable interpretation consistent with the specification. In re Hyatt, 211 F.3d 1367, 1372, 54 USPQ2d 1664, 1667 (Fed. Cir. 2000). Applicant always has the opportunity to amend the claims during prosecution, and broad interpretation by the examiner reduces the possibility that the claim, once issued, will be interpreted more broadly than is justified. In re Prater, 415 F.2d 1393, 1404-05, 162 USPQ 541, 550-51 (CCPA 1969)

Regarding the 35 U.S.C. 102(a) rejections, Applicant argues that Schaffer et al. publication has a filing date December 22, 2003, succeeding the International Filing date PCT/EP03/12861 November 17, 2003.

Examiner's position is that according to MPEP 1896.II.B, PCT/EP03/12861 did not designate the United States and was not published in English under PCT Article 21(2), therefore does not qualify the international filing date as a US filing date for prior art purposed. Schaffer et al. publication have been applied properly under 35 U.S.C. 102(a) as of its publication date.

### ***Conclusion***

The following prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Kishimoto et al. (US 6,928,369), Jacobson et al. (US 4,787,252) and Ao (US 6,626,049).

***Fax/Telephone Information***


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cindy D. Khuu whose telephone number is (571) 272-8585. The examiner can normally be reached on M-F, 7:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on (571) 272-2269. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/CHK/  
2/8/2008

/John E Barlow Jr./  
Supervisory Patent Examiner,  
Art Unit 2863

<div>Application Number</div> <div></div>	Application/Control No.	Applicant(s)/Patent under Reexamination	
	10/535,674	FROEHLICH ET AL.	
	Examiner	Art Unit	
	CINDY D. KHUU	2863	